



Hewlett Packard
Enterprise

HPE Connected Backup

Software Version: 8.8.7

Requirements Matrix

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Requirements matrix

This document lists hardware and software requirements for Connected Backup 8.8.7.

Data Center

This section lists the installation requirements for the Connected Backup Data Center software.

Data center hardware requirements

This section specifies the hardware requirements for the Connected Backup Data Center and servers.

Component	Requirements
Processor	<ul style="list-style-type: none"> 64-bit environment Server class with four cores of speeds of 2.5 GHz or more (minimum)
Memory	<ul style="list-style-type: none"> 64-bit environment <ul style="list-style-type: none"> Minimum: 8 GB, parity or ECC RAM Recommended: 16 GB or more, parity or ECC RAM
Network interface card	1 Gbps NOTE: For mirrored and clustered environments, use two Ethernet adapters: the first for archives and the second for replication.
Disk space for Data Center application	50 GB
Event log file size	500 MB (minimum)

Network bandwidth sizing estimates

This section specifies estimates for the amount of network bandwidth that the Data Center requires.

Network element	Network requirements
Network bandwidth between the Agent computer and each Data Center	5 megabits per second per 500 users, based on 50 MB to 60 MB of compressed data per user per day
Network bandwidth between Data Centers in a mirrored or clustered configuration	5 megabits per second per 500 users, based on 50 MB to 60 MB of compressed data per user per day

Data center software requirements

This section specifies the operating system and application requirements for Data Center applications.

Application	Requirements
Operating system	<ul style="list-style-type: none"> Windows Server 2016 Standard (64-bit only)

Application	Requirements
	<ul style="list-style-type: none"> • Windows Server 2012 R2 Standard (64-bit GUI mode only) • Windows Server 2008 R2 SP1 Standard or Enterprise (64-bit only) <p>For more information about the requirements for these operating systems, see the Microsoft® Windows® documentation.</p>
SQL	<ul style="list-style-type: none"> • Microsoft SQL Server 2016 Standard or Enterprise (64-bit only) • Microsoft SQL Server 2014 Standard or Enterprise (64-bit only) • Microsoft SQL Server 2012 SP2 Standard or Enterprise (64-bit only) • Microsoft SQL Server 2008 R2 SP2 or SP3 Standard or Enterprise (64-bit only) <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>NOTE: Connected Backup supports only the following software combinations:</p> <ul style="list-style-type: none"> • Windows Server 2016 and SQL Server 2016 • Windows Server 2016 and SQL Server 2014 • Windows Server 2012 R2 and SQL Server 2016 • Windows Server 2012 R2 and SQL Server 2014 • Windows Server 2012 R2 and SQL Server 2012 SP2 • Windows Server 2008 R2 and SQL Server 2008 R2 </div>
Microsoft .NET Framework	<ul style="list-style-type: none"> • Windows Server 2016 servers <ul style="list-style-type: none"> ◦ Version 4.6.2 • Windows Server 2012 R2 servers <ul style="list-style-type: none"> ◦ Version 4.6 • Windows Server 2008 R2 servers <ul style="list-style-type: none"> ◦ Version 4.6 <p>For more information, see the Microsoft Windows documentation.</p>
Web browser	<p>To use Support Center, open any of the following Web browsers:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 8 (32-bit) • Microsoft Internet Explorer 9 (32-bit) • Microsoft Internet Explorer 10 (32-bit) • Microsoft Internet Explorer 11 (32-bit) <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>NOTE:</p> <ul style="list-style-type: none"> • You can use the 64-bit version of Internet Explorer to access Support Center, but you do not have access to certain functions, such as viewing created reports and downloading Agents. • The computer you use to access Support Center requires minimum of Java 7 to function properly. • For Windows computers: To sign in to Support Center using a single sign-on account, you must turn on the Transport Layer Security (TLS) 1.2 setting in Internet Explorer. </div>

Data center storage requirements

This section specifies the storage requirements for the Data Center.

Set	Storage type
Archives	<p>Any of the following storage methods:</p> <ul style="list-style-type: none"> • Direct Attached Storage <ul style="list-style-type: none"> ◦ AT Attachment (ATA) ◦ Serial ATA (SATA) ◦ eSATA ◦ SCSI-1 ◦ SAS ◦ Fibre Channel • NAS • SAN <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>NOTE:</p> <ul style="list-style-type: none"> • We recommend the use of RAID, if available. • HPE Connected Backup version 8.8.7 supports using mount point as an archive volume. </div>
Databases	<p>Any of the following storage methods:</p> <ul style="list-style-type: none"> • Direct Attached Storage • SAN <div style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p>NOTE: We recommend the use of RAID, if available. The recommended RAID level is RAID 1 + 0. We do not recommend the use of RAID 5 due to deficient performance.</p> </div>

Data center storage sizing estimates

Each Data Center environment has different requirements and different hardware for data protection. To obtain a storage sizing estimate based on your needs and your server environment, contact your Sales Representative.

Web Servers

This section identifies the installation requirements for Connected Backup Web Services applications that you install on Web Servers.

Web server hardware requirements

This section specifies the hardware requirements for Web Servers.

NOTE: Web Services applications have the following deployment requirements:

- Account Management Website (AMWS)
 - In a standalone environment, AMWS can reside on its own server or the Data Center server.
 - In a mirrored or clustered environment, AMWS cannot reside on the Data Center server. It can reside on the same server as Support Center
- Support Center
 - In a standalone environment, Support Center can reside on its own server or the Data Center server.
 - In a mirrored environment, Support Center should not reside on the Data Center server. It can reside on the same server as AMWS.
 - In a clustered environment, Support Center must not reside on the Data Center server. It can reside on the same server as AMWS.
- Management API and Data Transfer API must reside either on their own servers or on the same server. They cannot reside on the Data Center server or any other server that hosts Connected Backup components.

Component	Requirements
Processor	Server class with dual 2 GHz processors or a single 3 GHz dual-core processor (minimum)
Memory	4 GB, parity or ECC RAM (recommended)
Network interface card	1 Gbps
Disk space	500 MB (minimum) for the event log plus additional space on servers where the following components reside: <ul style="list-style-type: none"> • AMWS server: 50 GB • Support Center server: 10 GB • Management API: 150 GB • Data Transfer API: 150 GB (recommended) Each retrieval requires temporary space that is equal to twice the estimated retrieval size. The recommended amount of disk space is 150 GB, which supports file retrievals up to 75 GB. The software requires this space on the drive where you install the Data Transfer API.

Web server software requirements

This section specifies the software requirements for Web servers.

Application	Requirements
Operating system	<ul style="list-style-type: none"> • Windows Server 2016 Standard (64-bit only) • Windows Server 2012 R2 Standard or Enterprise (64-bit only) • Windows Server 2008 R2 SP1 Standard or Enterprise (64-bit only) • Windows Web Server 2008 R2 SP1 (64-bit only) <p>For more information about the requirements for these operating systems, see the Windows documentation.</p>
Microsoft Distributed Transaction Coordinator Service	<p>Included with the Windows operating system.</p> <p>For more information, see the Microsoft Windows documentation.</p>
Java	<p>One of the following:</p> <ul style="list-style-type: none"> • Version 1.7 (32-bit) • Version 1.8 (32-bit)
Microsoft .NET Framework	<ul style="list-style-type: none"> • Windows Server 2016 <ul style="list-style-type: none"> ◦ Version 4.6 • Windows Server 2012 <ul style="list-style-type: none"> ◦ Version 4.6 • Windows Server 2008 R2 <ul style="list-style-type: none"> ◦ Version 4.6 (Data Transfer API) ◦ Version 4.6 (Management API, Support Center) <p>For more information, see the Microsoft Windows documentation.</p>
ASP.NET	<ul style="list-style-type: none"> • Windows Server 2016 <ul style="list-style-type: none"> ◦ ASP.NET 4.6 • Windows Server 2012 <ul style="list-style-type: none"> ◦ ASP.NET 4.6 • Windows Server 2008 R2 <ul style="list-style-type: none"> ◦ ASP.NET 4.6 <p>For more information about these components, see the Microsoft Windows documentation.</p>
Internet Information Server (IIS)	<ul style="list-style-type: none"> • Version 7.0, or later, with IIS 6 Compatibility Mode enabled (AMWS, Support Center, and Data Transfer API) • Version 7.0, or later (Management API) • SSL encryption protocol <ul style="list-style-type: none"> ◦ Versions earlier than 8.6.2, use SSL 2.0 ◦ Versions 8.6.2 and later, use TLS 1.0. Disable SSL 2.0 and SSL 3.0. <p>NOTE: Ensure that you disable any weak and vulnerable cipher having</p>

Application	Requirements
	a block size of 64-bits, such as Triple DES, in a system on which you have installed the AMWS or Support Center.
Microsoft Visual C++	<p>Both of the following for the Management API only</p> <ul style="list-style-type: none"> ○ 2010 Redistributable Package (x64) ○ 2010 Redistributable Package (x86) <p>For more information, see the Microsoft Download Center.</p>

Data Center and Web Server Virtualization

This section lists the virtualization specifications for the Connected Backup Data Center and Web Servers:

- All Connected Backup servers may run as virtual machines.
- Most modern virtual machine implementations support Connected Backup servers. For any limitations that may prevent Connected Backup from functioning correctly, consult your VM software provider.
- The dedicated resources, such as CPU, memory, bandwidth, and storage must meet the minimum requirements. Also, they must be dedicated to exclusive use for Connected Backup and not pooled with other virtual machines (although a VM host could include other virtual machines).
- It is suggested that all VM instances of Connected Backup meet the recommended rather than the minimum resource requirements.
- Virtualization of client machines is not supported for Connected Backup Agents due to known issues in the virtual machines.

SSO Service Provider Requirements

This section identifies the configuration requirements for Connected Backup to utilize a Single Sign-On Service Provider such as Ping Federate. This enables the Connected Backup Data Center to have Single Sign-On (SSO) communities and technician IDs.

Ping federate software requirements

This section specifies the software requirements for Connected Backup to use Ping Federate as its SSO service provider.

Application	Requirements
Operating system	For more information about the requirements for these operating systems, see the Ping Federate service provider installation documentation.
Ping Federate	<p>Version 6.11 or later</p> <p>For more information about the requirements for Ping Federate, see the Ping Federate</p>

Application	Requirements
	service provider installation documentation.

Agents

This section lists the installation requirements for the Connected Backup Agent software.

NOTE: If you use Single Sign-On (SSO) enabled communities, the agent version must be 8.6.3 or higher. No 7.x or older 8.x agents will be available in these communities.

Mac Agents

The following table lists the requirements for Mac Agents.

Component	Requirements
Operating system	<ul style="list-style-type: none"> Mac OS X10.9 (Mavericks) Mac OS X10.10 (Yosemite) Mac OS X10.11 (El Capitan) macOS 10.12 (Sierra)
Memory (RAM)	2 GB (minimum)
Processor	Intel®
Web browser	<p>To access the Account Management Website, use any of the following Web browsers:</p> <ul style="list-style-type: none"> Apple Safari 6 or later Mozilla Firefox 16 or later
Disk space	1 GB (depending on the size of the data backed up)

PC Agents

The following table lists the requirements for PC Agents.

Component	Requirements
Operating system	<ul style="list-style-type: none"> Windows 7 (32-bit or 64-bit) Windows 8 (32-bit or 64-bit) Windows 8.1 Update 1 (32-bit or 64-bit) Windows 10 (32-bit or 64-bit)
Memory (RAM)	<p>2 GB (minimum)</p> <p>NOTE: Microsoft's recommendations supersede the recommendation listed here.</p>

Component	Requirements
Processor	For more information, see the Microsoft Windows documentation
Web browser	<p>To access the Account Management Website, use any of the following Web browsers:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 9, or later • Mozilla Firefox 32.02, or later • Chrome 37, or later <p>NOTE: To support single sign-on accounts in the Agent and AMWS, you must turn on the Transport Layer Security (TLS) 1.2 setting if Internet Explorer is your default browser or you use it to access AMWS.</p>
Java	JRE 6.0 or later (Required for PC Media Agent and AMWS)
Microsoft .NET Framework	<p>Version 4.6—Full edition only; the Client Profile edition is not sufficient</p> <p>The Agent requires .NET only to display the user interface. The Agent service can back up files without .NET installed.</p> <p>NOTE: If not installed on the PC, for interactive installations, the Agent installer prompts whether to automatically install .NET (Full edition). For silent installations, the first time the user starts the Agent, the Agent prompts whether to automatically install .NET (Full edition).</p>
Disk space	<p>1 GB (which depends on the size of the data backed up) plus the following amount of space:</p> <ul style="list-style-type: none"> • For open file handling that uses the Microsoft Volume Shadow Copy service (VSS), a minimum of 10% of the total storage space must be free on a backed-up NTFS volume. • If you use Connected Email Optimizer, disk space in the amount of 1.5 times the size of all PST and NSF files that you plan to back up must be free.

Agent sizing requirements

- The maximum size of an Email Optimizer file that a PC agent can back up is 50 GB, and for an individual file, the PC or Mac Agent can back up to 20 GB.
- The maximum number of files that a PC Agent can scan is 12 million.